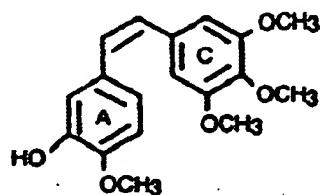
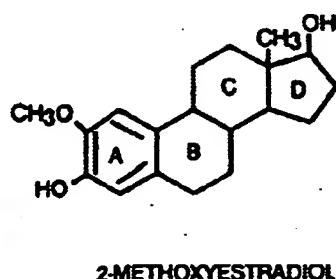
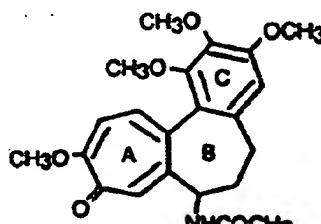




## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6:  A61K 31/56, C07J 41/00, 31/00, 13/00, 9/00, 5/00, 7/00, 3/00, 1/00		A1	(11) International Publication Number: WO 95/04535  (43) International Publication Date: 16 February 1995 (16.02.95)
(21) International Application Number: PCT/US94/08767  (22) International Filing Date: 2 August 1994 (02.08.94)  (30) Priority Data: 08/102,767 6 August 1993 (06.08.93) US		(81) Designated States: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, ES, FI, GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LT, LU, LV, MD, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, UZ, VN, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG), ARIPO patent (KE, MW, SD).	
(71) Applicant: THE CHILDREN'S MEDICAL CENTER CORPORATION [US/US]; 55 Shattuck Street, Boston, MA 02115 (US).  (72) Inventors: D'AMATO, Robert, John; 911 Forest Road, Lancaster, PA 17601 (US). FOLKMAN, Moses, Judah; 18 Chatham Circle, Brookline, MA 02146 (US).  (74) Agent: FREEMAN, John, W.; Fish & Richardson, 225 Franklin Street, Boston, MA 02110-2804 (US).		Published With international search report	

(54) Title: ESTROGENIC COMPOUNDS AS ANTI-MITOTIC AGENTS



(57) Abstract

The application discloses methods of making medicaments for treating mammalian diseases characterized by abnormal cell mitosis by administering estrogen derivatives including those comprising colchicine or combretastatin A-4 structural motifs of general formulae found above in a dosage sufficient to inhibit cell mitosis. The application discloses novel compounds used in the methods.